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Application Number	10/020,838
Filing Date	12/10/2001
First Name of Inventor	David W. Brown
Group Art Unit	2153
Examiner Name	

Sheet 1 of 2

Attorney Docket Number	P214009
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Examiner Initials*	Cite No. ²	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ²			
HL		4,769,771		Lipmann et al.	09-1988	
		6,546,436		Fainmesser et al.	04-2003	
		5,724,074		Chainani et al.	03-1998	
		6,497,606		Fong et al.	12-2002	
		6,290,565		Gaylean III et al.	09-2001	
		6,012,961		Sharpe et al.	01-2001	
		6,309,275		Fong et al.	10-2001	
		4,923,428		Curran, Kenneth J.	05-1990	
		6,083,104		Choi, Kei Fung	07-2000	
		5,390,304		Leach et al.	02-1995	
		4,987,537		Kawata, Kazuhide	01-1991	
		6,678,713		Mason et al.	01-2004	
		6,442,451		Lapham, John R.	08-2002	
		6,301,634		Gomi et al.	10-2001	
		6,031,973		Gomi et al.	02-2000	
		5,805,785		Dias et al.	09-1998	
		5,754,855		Miller et al.	05-1998	
		5,625,821		Record et al.	04-1997	
		4,800,521		Carter et al.	01-1989	
		6,400,996		Hoffberg et al.	06-2002	

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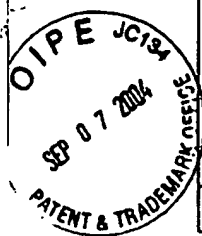
1 Unique citation designation number 2 See attached Kinds of U.S. Patent Documents 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3) 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible 6 Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2

of 2

Attorney Docket Number	P214009
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U.S. PATENT

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FOREIGN PATENT

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Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/020,838
		Filing Date	12/10/2001
		First Named Inventor	David W. Brown
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Sheet 1	of 1	Attorney Docket Number	P214009

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T*
HL		US pub. No. 2003/0069998 to Brown et al.	
HL		US pub. No. 2002/0177453 to Chen et al.	
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Examiner Signature	H. Chen	Date Considered	2/24/06
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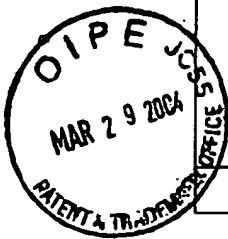
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First Named Inventor	David W. Brown
Group Art Unit	2153
Examiner Name	G. Burgess
Attorney Docket Number	P214009



U.S. PATENT DOCUMENTS						
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		Number	Kind Code ³			
H1		6,028,593		Rosenberg et al.	02/22/2000	
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		5,956,484		Rosenberg et al.	09/21/1999	
		6,101,530		Rosenberg et al.	08/08/2000	
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		6,078,308		Rosenberg et al.	06/20/2000	
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		6,057,828		Rosenberg et al.	05/02/2000	
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		5,701,140		Rosenberg et al.	12/23/1997	
		5,739,811		Rosenberg et al.	04/14/1998	
		5,734,373		Rosenberg et al.	03/31/1998	

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Filing Date	12/10/2001
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First Named Inventor	David W. Brown
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Group Art Unit	2153
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Examiner Name	G. Burgess
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Attorney Docket Number	P214009
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Sheet 2 of 2

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Signature**

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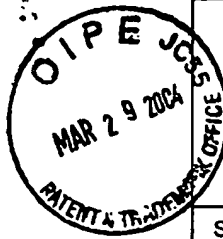
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Sheet 1 of 3

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Application Number 10/020,838
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First Named Inventor David W. Brown
Group Art Unit 2153
Examiner Name G. Burgess
Attorney Docket Number P214009

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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	†
HL	1	BRADLEY BARGEN and PETER DONNELLY; <u>Inside Direct X – In Depth Techniques for Developing High-Performance Multimedia Applications</u> ; 1988; Chps. 1, 18-20, 22-27; Microsoft Press; U.S.	
	2	PETER KOVACH; <u>Inside Direct3D – The Definitive Guide for Real-Time 3D Power and Performance for Microsoft Windows</u> ; 2000; Chps. 1, 7, 15; Microsoft Press; U.S.	
	3	M. FARSI and M. BARBOSA; <u>CANopen Implementation - Applications to Industrial Networks</u> ; 2000; Research Studies Press Ltd.; England and U.S.	
	4	WOLFHARD LAWRENZ; <u>CAN System Engineering – From Theory to Practical Applications</u> ; 1997; Springer-Verlag New York, Inc.; U.S.	
	5	ALLEN-BRADLEY; "CNCnet Software Library"; October, 1992; Publication 8000-6.1.1; U.S.	
	6	ROBERT BOSCH GmbH; "CAN Specification"; September, 1991; Version 2.0.	
	7	SISCO, INC.; "Overview and Introduction to the Manufacturing Message Specification (MMS)"; 1994-1995; Revision 2; Systems Integration Specialists Company, Inc.; Sterling Heights, Michigan, U.S.	
	8	ISO-9506-1 "Industrial Automation Systems—Manufacturing Message Specification—Part 1: Service definition"; August, 2000; pp. i-22; ISO/IEC; Switzerland.	
	9	ISO-9506-2 "Industrial Automation Systems—Manufacturing Message Specification—Part 2: Protocol specification"; August 2000; pp. i-6; ISO/IEC; Switzerland.	
	10	SISCO, INC.; "MMS-EASE"; January 1996; Systems Integration Specialists Company, Inc.; Sterling Heights, Michigan, U.S.	
	11	ANSI/EIA-484-A "Electrical and Mechanical Interface Characteristics and Line Control Protocol Using Communication Control Characters for Serial Data Link Between a Direct Numerical Control System and Numerical Control Equipment Employing Asynchronous Full Duplex Transmission"; June, 1995; Electronic Industries Association; U.S.	

Examiner Signature	<i>Huan C</i>	Date Considered	2/24/06
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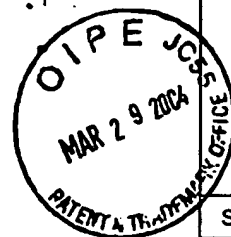
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Sheet	2	of	3

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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	†
HL	12	ISO/IEC 7498-1 "Information Technology—Open Systems Interconnection-Basic Reference Model: The Basic Model"; November 1994; U.S.	
	13	ISO/IEC 7498-3 "Information Technology—Open Systems Interconnection-Basic Reference Model: Naming and Addressing"; April 1997; U.S.	
	14	TODD J. SCHUETT; "The Benefits and Data Bottlenecks of High Speed Milling"; August, 1995; conference paper presented at Southeastern Michigan Chapter American Mold Builders Association; Creative Technology Corporation; U.S.	
	15	TODD J. SCHUETT; "The Ultimate DNC; Direct CNC Networking (DCN)"; <u>Modern Machine Shop</u> ; January, 1996; Creative Technology Corporation; U.S.	
	16	TODD J. SCHUETT; "Advanced Controls for High Speed Milling"; conference paper presented at the SME "High Speed Machining" conference; May 7-8, 1996; Creative Technology Corporation; U.S.	
	17	LEITAO, MACHADO & LOPES; "A Manufacturing Cell Integration Solution"; paper developed at CCP as a part of the ESPRIT 5629 Project; October, 1995.	
	18	MITSUBISHI ELECTRIC; <u>Mitsubishi Electric Advance: Programmable Logic Controllers Edition</u> ; September, 1996; Vol. 76; Mitsubishi Electric Corporation; Tokyo.	
	19	FARSI, M.; "Flexible and Reliable Robotics Cells in Factory Automation"; 1993; pp. 520-525.	
	20	CHU & WANG; "Development of a Practical SFC System for CNC Machine Shop"; <u>International Conference on Data and Knowledge Systems for Manufacturing and Engineering</u> ; May 1994; pp. 362-367, Vol. 1; pp. xx+745, Vol. 2; Chinese Univ.; Hong Kong.	
	21	FARSI, M.; "Device Communication for Flexible Manufacturing:-A New Concept"; 1994; pp. 328-334.	
	22	FARSI, M.; "A Production Cell Communication Model in Factory Automation Using the Controller Area Network"; 1995; pp. 90-95.	

Examiner Signature	H. A. C.	Date Considered	2/24/06
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Examiner Name	G. Burgess
Attorney Docket Number	P214009

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Sheet 3 of 3

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First Named Inventor	David W. Brown
Group Art Unit	2142
Examiner Name	Le, Hieu C.
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Sheet 1 of 1



U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ²	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ²			
AC	1	4,829,419		Hyatt	05-09-1989	
AC	2	5,005,134		Nakashima et al.	04-02-1991	
AC	3	5,291,416		Hutchins	03-01-1994	
AC	4	5,368,484		Copperman et al.	11-29-1994	
AC	5	5,382,026		Harvard et al.	01-17-1995	
AC	6	5,400,345		Ryan, Jr.	03-21-1995	
AC	7	5,405,152		Katanics et al.	04-11-1995	
AC	8	5,413,355		Gonzalez	05-09-1995	
AC	9	5,618,179		Copperman et al.	04-08-1997	
AC	10	5,704,837		Iwasaki et al.	01-06-1998	
AC	11	5,766,077		Hongo	06-16-1998	
AC	12	5,772,504		Machiguchi	06-30-1998	
AC	13	5,802,365		Kathail et al.	09-01-1998	
AC	14	5,921,780		Myers	07-13-1999	
AC	15	5,984,499		Nourse et al.	11-16-1999	
AC	16	6,065,365		Ostler et al.	05-23-2000	
AC	17	6,080,063		Khosla	06-27-2000	
AC	18	6,133,867		Eberwine et al.	10-17-2000	
AC	19	5,625,820		Herrmsmeier et al.	04-29-1997	
AC	20	6,518,980		DeMotte et al.	02-11-2003	

FOREIGN PATENT DOCUMENTS

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Examiner Signature	Andrew Caldwell	Date Considered	6/5/06
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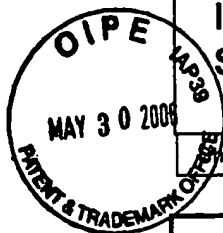
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AC	1	STEWART, SCHMITZ, KHOSLA; "Implementing Real-Time Robotic Systems Using CHIMERA II", IEEE, 1990, pp. 254-255, Sections 3.1 and 3.2	
AC	2	PAIDY, REEVE; "Software Architecture for a Cell Controller", IEEE, 1991, pp. 344-349	
AC	3	PAYTON, D. , BIHARI, T.; "Intelligent Real-Time Control of Robotic Vehicles", ACM, 8/1/1991, pp. 49-63, Volume 34, No. B.	
AC	4	BLASVAER, PIRJANIAN; "An Autonomous Mobile Robot System", 6/8/1994, pp 52-61 and 122-124, Chapters 4 and 6.7	
AC	5	PIRJANIAN, CHRISTENSEN; "Hierarchical Control for Navigation Using Heterogeneous Models", 11/1/1995, 19 pages, Denmark.	
AC	6	GLOBALSPEC; "About CNC Controllers", 1999, INTERNET LOCATION: http://motion-controls.globalspec.com/LearnMore/Motion_Controls/Machine_Motion_Controllers/CNC_C_ontrollers	
AC	7	NILSSON, K. , JOHANSSON, R.; "Integrated Architecture for Industrial Robot Programming and Control", Elsevier Science Publishers B.V, 5/20/1999, Robotics and Autonomous Systems, pp. 205-226, Volume 29	
AC	8	BROWN, K.; "SOAP for Platform Neutral Interoperability", 9/1/2000, 16 pages.	

Examiner Signature	Andrew Caldwell	Date Considered	6/16/06
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